TOMM40 Positive Control

PRODUCT OVERVIEW

Product Name	TOMM40, Positive Control
Full Product Name	TOMM40 Positive Control
Product Gene Name	TOMM40 positive control
Product Synonym Names	C19orf1; D19S1177E; Haymaker protein; Mitochondrial import receptor subunit TOM40 homolog; Mitochondrial outer membrane protein TOM40; p38.5; PER EC1; Probable mitochondrial import receptor subunit TOM40 homolog; Protein Haymaker; TOM40; TOMM40; Translocase of outer membrane 40 kDa subunit homolog; Translocase of outer mitochondrial membrane 40 homolog (yeast) antibody
Form/Format	Western Blot Positive Control
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: TOMM40 (MBS5400120) Positive Control: TOMM40 (MBS543336)
Matching Pairs	Antibody: TOMM40 (MBS5400121) Positive Control: TOMM40 (MBS543336)
Matching Pairs	Antibody: TOMM40 (MBS5400122) Positive Control: TOMM40 (MBS543336)
Molecular Weight	34,441 Da
OMIM	608061
3D Structure	ModBase 3D Structure for O96008
Immunogen	Purified Protein
Molecular Function	Porin activity; Protein transmembrane transporter activity
Structure	Forms part of the preprotein translocase complex of the outer mitochondrial membrane (TOM complex) which consists of at least 7 different proteins (TOMM5, TOMM6, TOMM7, TOMM20, TOMM22, TOMM40 and TOMM70). Interacts with mitochondrial targeting sequences.
Subcellular Location	Mitochondrion outer membrane; Multi-pass membrane protein
Applications Tested/Suitable for TOMM40 positive control	Western Blot (WB)
Application Notes for TOMM40 positive control	Western Blot: 1:500
Related Product Information for TOMM40 positive control	Western Blot Positive Control Mitochondrial import receptor subunit TOM40 homolog Channel-forming protein essential for import of protein precursors into mitochondria.
Other Notes	Small volumes of TOMM40 positive control vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TOMM40 purchase	MBS543336 is a positive control targeting TOMM40.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TOMM40. It may not necessarily be applicable to this product.

NCBI GI #	12230369
NCBI GeneID	10452
NCBI Accession #	O96008.1
UniProt Primary Accession #	O96008
UniProt Secondary Accession #	Q86VW4; Q8WY09; Q8WY10; Q8WY11; Q9BR95
UniProt Related Accession #	O96008
NCBI Official Full Name	Mitochondrial import receptor subunit TOM40 homolog
NCBI Official Synonym Full Names	translocase of outer mitochondrial membrane 40
NCBI Official Symbol	TOMM40
NCBI Official Synonym Symbols	TOM40; PEREC1; C19orf1; PER-EC1; D19S1177E
UniProt Protein Name	Mitochondrial import receptor subunit TOM40 homolog
UniProt Synonym Protein Names	Protein Haymaker; Translocase of outer membrane 40 kDa subunit homolog; p38.5
Protein Family	Mitochondrial import receptor
UniProt Gene Name	TOMM40
UniProt Synonym Gene Names	C19orf1; PEREC1; TOM40
UniProt Entry Name	TOM40_HUMAN
NCBI Protein Information	mitochondrial import receptor subunit TOM40 homolog
NCBI Summary for TOMM40	The protein encoded by this gene is localized in the outer membrane of the mitochondria. It is the channel-forming subunit of the translocase of the mitochondrial outer membrane (TOM) complex that is essential for import of protein precursors into mitochondria. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2015]
UniProt Comments for TOMM40	TOMM40: Channel-forming protein essential for import of protein precursors into mitochondria. Belongs to the Tom40 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 19q13 Cellular Component: cytoplasm; integral to membrane; integral to mitochondrial outer membrane; mitochondrial outer membrane; mitochondrial outer membrane translocase complex; mitochondrion; nucleoplasm; pore complex Molecular Function: porin activity; protein channel activity; protein transmembrane transporter activity Biological Process: ion transport; macroautophagy; protein import into mitochondrial matrix; protein targeting to mitochondrion
Research Articles on TOMM40	**1.** Epilepsy, impaired fine motor function and gastrostomy tube feeding were less common in cerebral palsy children with single nucleotide polymorphisms in the APOE or TOMM40 genes
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